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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,677	12/28/2000	Masaki Okayasu	Q62316	8681
. 7	590 03/20/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
2100 Pennsylvania Avenue, NW. Washington, DC 20037		СНЕМ, ТІАМЛЕ		
			ART UNIT	PAPER NUMBER
			2652	5
			DATE MAILED: 03/20/2003	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/749,677	OKAYASU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tianjie Chen	2652	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on			
,—	— · s action is non-final.		
3) Since this application is in condition for allowa		rosecution as to the merits is	
closed in accordance with the practice under <i>E</i> Disposition of Claims			
4) \boxtimes Claim(s) <u>1-4</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	n from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-4</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examiner			
10)⊠ The drawing(s) filed on <u>23 March 2001</u> is/are: a			
Applicant may not request that any objection to the 11) The proposed drawing correction filed on			
If approved, corrected drawings are required in rep		oved by the Examiner.	
12) The oath or declaration is objected to by the Exa		1	
Priority under 35 U.S.C. §§ 119 and 120			
13)⊠ Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119(a	n)-(d) or (f)	
a)⊠ All b)□ Some * c)□ None of:	priority under the diction 3 × ro(a	,, (=, 0. (.).	
1.⊠ Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents		on No.	
Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the prior action for action for a list of the prior action for a list o	ity documents have been receive eau (PCT Rule 17.2(a)).	ed in this National Stage	
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application).	
a) The translation of the foreign language pro-	The state of the s		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.	5) Notice of Informal I	(PTO-413) Paper No(s) Patent Application (PTO-152)	

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Non-Final Rejection

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miike (US 6,111,827) in view of Ohtsuka et al (US 5,297,127).

With regard to claim 1, Mike shows a mounting structure of a hybrid optical module in Fig.4 (a copy with added marks is attached in next page) including: a movable member (as marked) that is supported by two shafts 18 and 19, a recording medium drive apparatus shown in Fig 4 including a hybrid optical module 1 having a light emitting 38 (Fig. 4; column 13, line 14) and receiving device 32 (Fig. 4; column 14, line 31) mounted on the movable member, the hybrid optical module 1 being slid on the shafts 18 and 19 so as to perform a tracking operation on an optical recording medium (moving radially, column 6, lines 4-6), wherein a portion P of the hybrid optical module which is closer to one of the shafts 18 when the hybrid optical module is mounted on the movable member is cut out in substantially parallel with the shaft, and by an angle A which is substantially equal to an incident angle B of an optical path with respect to a tracking direction of the optical recording medium.

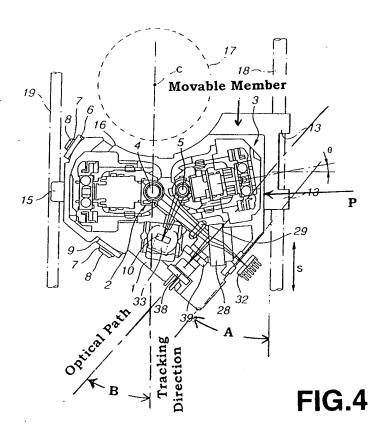
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Miike does not show a driving coil attached to the movable member.

Ohtsuka et al shows an optical device, wherein a driving coil 13 is attached to the movable member 1 (Fig. 1,column 2, lines 26-31).

It would have been obvious at the time the invention was made to one of ordinary skill in the art to add the coil taught by Ohtsuka et al into Miike's device. The rationale is as follows: Miike has mentioned that the movable member is moved by a sled motor (column 6, lines 8-10), but was not illustrated. Ohtsuka et al shows a moving mechanism, which is moved by a sled motor having a coil attached on the movable member. And use a coil for moving the movable member in an optical tracking system is well known and notorious in the art. One of ordinary skill in the art would have been motivated to add the coil taught by Ohtsuka et al into Miike's device, thus being able to move the movable member.



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With regard to claim 2, Milke further shows that a spindle motor 17 (Fig. 4, column 6, line 12) is placed to be closer to the shaft 19 in a direction of light incidence of an optical system including the hybrid optical module, and the hybrid optical module having a cut portion P which is closer to another shaft 18 is mounted with a pick-up unit shown in Fig. 7.

With regard to claim 3, Milke further shows that the angle A by which the portion of the hybrid optical module is cut out is in a range of 30° to 45° substantially.

With regard to claim 4, Miike and Ohtsuka et al shows a recording medium drive apparatus as described above including: a movable member that is supported by at least two shafts, and a polygonal hybrid optical module having a light emitting and receiving device which is mounted on the movable member, and a driving coil attached to the movable member, the hybrid optical module being slid on the shafts so as to perform a tracking operation on a recording medium, wherein a portion of the hybrid optical module which is closer to one of the shafts is cut out in substantially parallel with the shafts, and by an angle which is substantially equal to an incident angle of an optical path in a tracking direction of the recording medium.

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - US006339569B1 to Liu et al shows an optical data card writer.
 - US004856871A to Van Sant shows a optical pickup.
 - US006009062A to Nashimoto et al shows an optical pickup mounting and moving system.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tianjie Chen whose telephone number is (703) 305-

7499. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on (703) 305-9687. The fax phone numbers

for the organization where this application or proceeding is assigned are (703)746-

6037 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703)

306-0377.

Tianjie Chen

Examiner

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March 6, 2003